THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMATI JAYAWANTI MEHTA): (a) and (b) National Thermal Power Corporation (NTPC) have no proposal for the present to send their emplyees to IIT, Delhi and BITS Pilani for re-training. However, NTPC have been collaborating with these institutes for the purpose of building competency in graduate engineers and diploma engineers as given below:

(i) The Power Management Institute (PMI) of NTPC collaborates with IIT, Delhi for a Post Graduate (M.Tech.) course for NTPC's graduate engineers.

(ii) NTPC have entered into an Undertaking with BITS Pilani to run a distance learning Bachelor of Science (BS) Course in Power Engineering for Diploma qualified employees of NTPC.

(c) The amount that is going to be spent on such training by NTPC depends on various factors like availability of funds, programme/ number of candidates involved etc. However, the employees are provided accommodation in power management institute/NTPC township at NOIDA in case of M. Tech. Programme. In case of BS Course, 30% of the expense is met by the candidate and the balance 70% is met by NTPC.

On going power projects

1610. PROF. M. M. AGARWAL: Will the Minister of POWER be pleased to state:

(a) the details of on going power projects in the different parts of the country during the last three years;

(b) the present status of the above projects, project-wise; and

(c) by when the above power projects are likely to be completed?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMTI JAYAWANTI MEHTA): (a) to (c) A statement showing state-wise details in respect of power generating projects in Government and Non-Government sectors under construction is annexed.

Statment

State-wise details of power generating project in Government and Non-Government sectors under construction.

A. Hydro Power Projects under Construction

SI. No.	Name of Scheme	State	Capacity (MW)	Comm. Sch. Latest	Status
1	2	3	4	5	6
CENTRAL SECTOR					
1.	Dholiganga (NHPC)	Uttaranchal	280.00	2004.5	Forest and defence land acquired. Private land is under acquisition. All major works awarded. River divided through diversion tunnel on 21.04.2001. 91.71 % spillway excavation completed. Draft tube elbow of units 2,3 & 4 have been lowered and erection completed. 2nd stage concreting of units 3 & 4 completed. 2nd stage concreting of unit-2 is in progress.
2.	Chamera St. II (NHPC)	H.P.	300.00	2004-05	The project is being implemented on turnkey basis, widening of surge shaft is also completed. Benching of desilting chamber I & II is in progress. Concreting of silting basin is in progress.
3.	Dulhasti (NHPC)	J&K	390.00	2003.04	Diversion Tunnel comple-ted. Excavation and concreting of Dam and Power House is completed. Works of Desilting Basin and Tail Race Tunnel are in progress. Excavation of pressure shaft, expansion gallery, surge tank and draft tubes completed. Erection and dupply of hydro Electro-mechanical

1	2	3	4	5	6
					equipment has been completed.
4.	Purulia PSS (NHPC)	W.B.	900.00	2006.07	OECF loan agreement signed in March, 95. Infrastructurel works in progress. Techno-commercial evaluation completed. Detailed engineering work is in progress. Evaluation of techno-commercial bids is in progress.
5.	Teesta St. V (NHPC)	Sikkim	510.00	2006.07	Both diversion tunnel have been completed ahead of schedule. Surge shaft excavation is in progress. Tail Race Tunnel open excavation completed. Tail Race Tunnel II & III excavation has been started.
6.	Loktak D/S (NHPC)	Manipur	90.00	2008.09	Development of infrastructure facilities at the project was in progress. The desired progress at working site is not possible unless the State Govt, provide requisite security. Ministry of Power has asked Govt, of Manipur to explore the possibilities of booking the expenditure of the project in other heads of the state so as to reduce the expenditure of the project.
7.	Parbati St. II (NHPC)	H.P.	800.00	2009.10	Infrastructure works are in progress. Civil works of diversion tunnel started.
8.	Indira Sagar (NHDC)	M.P.	1000.00	2004.06	Project being executed by Narmada Hydro Electric

1	2	3	4	5	6
					Development Corpn. a joint venture of Govt, of MP and NHPC with effect from 01.09.2001. Civil works in progress. Hydro Mechanical works of Main Dam,. Diversion tunnel, intake, Draft Tube and turbine Equipment are in progress.
9.	Nathpa Jhakri (NHPC)	H.P.	1500.00	2003.04	Consequent on flooding on 01.08.2000 the restoration of infrastructural works in dam and in-take areas. Desilting chamber and power house have been completed. All units are now scheduled to be commissioned by 12/2003 and efforts are being made to rotate/commission units 5&6 by December, 2003.
10.	Tehri St. I (THDC)	Uttaranchal	1000.00	2002.04	Works of coffer dam and diversion tunnels completed. The civil works of main dam, spillways, power house and tail race tunnel are in progress.
11.	Koteshwar (THDC)	Uttaranchal	400.00	2005.06	Govt, sanction accorded on 10.04.2000. Infrastructural works are in progress. Diversion tunnel day-lighted on 26-9-2001. Award of contract for Elctro-Mechanical package is under process.
12.	Tuirial (NEECO)	Mizoram	60.00	2006.07	Pre construction work completed. Inrastructure work in progress. Construction of 132 KV SC transmission line is in progress.

1	2	3	4	5	6
13.	Kopili St. II (NEEPCO)	Assam	25.00	2003.04	Pre-construction & infrastructurel works are being taken up. The works under packages-l & II orders are in progress.
14.	Kol Dam (NTPC)	H.P.	800.00	2008.10	Consultant appointed for engineering cum project management. Infrastructure and diversion tunnel works are in progress.
	Total (Central Sector):		8055.00		
	STATE SECTOR				
15.	Bagliahar	J&K	450.00	2004-05	The project has been sanctioned by State Govt, of J&K. Excavation of dam completed. Excavation of machine hall and transformer hall completed.
16.	Larji	H.P.	126.00	2004-05	Himachal Pradesh State Electricity Board had proposed some changes in the scope of this scheme and revised Detailed project Report was submitted to Central Electricity Authority (CEA) in March, 1999. Fresh TEC has been accorded by CEA on 14.01.2000. Excavation of Diversion tunnel completed. Excavation of surge shaft descending chambers and Power house in progress.
17.	Maneri Bhali-ll	Uttaranchal	304.00	2005-06	At present the works are at stand still due to fund constraints. De-watering of excavated tunnel is in progress.
18.	Lakhwar Vyasi	Uttaranchal	420.00	11 th Plan	At present the works are at stand still due to fund constraints.

1	2	3	4	5	6
19.	Sardar Sarovar	Guj/MP/Mah.	1450.00	2002.07	87.27% concreting of main dam completed. Erection, testing and pre-commissioning checks of ail five units completed. Units 2 & 3 spun on 04.09.2002.
20.	Madhikheda	M.R	40.00	2004-05	Infrastructure works are in progress. The contract for construction of approach channel, intake tunnel and surge shaft awarded and works started.
21.	Bansagar Tons PHIV	M.P.	20.00	2004-05	Jhinna head regulator works have completed. Order for Power house Civil works awarded.
22.	Ghatghar PSS	Man.	250.00	2004-05	Works of approach tunnel to Tail Race Tunnel, Approach tunnel, Link tunnel, Verification Tunnel, Construction of adit, Central drift to machine Hall and Transformer Hall completed. Excavation of Tail Race Tunnel completed and for Tail Surge is in progress.
23.	Priyadarshni Jurala	A.P.	235.00	2006-07 (Two Units) & four Units in 11th Plan	Global tenders and called for turnkey execution of the project opening of technical bids are in progress.
24.	Srisailam LBPH	A.R	900.00	2000-04	Unit-1: Rolled on 30.03.2001 and commissioned on 26.04.2001. Unit-2: Unit Rolled on 29.10.2001 and commissioned on 12.11.2001.

1	2	3	4	5	6
					Unit-3: Rolled on 29.10.2001 and commissioned on 19.04.2002. Unit-4: Almost ready for rotation; Unit-5: Welding of spiral casing is in progress. Unit-6: Welding of spiral segment is in progress.
25.	Almatti Dam	Ktk.	290.00	2004-06	Power house excavation and concreting are in progress. Fabrication and erection of penstocks are in progress.
26.	Pykara Ultimate	T.N.	150.00	2003-04	Gate shaft, Surge shaft completed. Power House and pressure shaft works are in progress. Tail Race Tunnel is through and lining completed. Orders for Generator Transformers and 220 KV cables placed.
27.	Bhawani Barrage I to III	T.N.	90.00	2004-05	Power House civil works are in progress.
28.	Balimela Extn.	Orissa	150.00	2005-07	Works yet to start. Conditional forest clearance from Ministry of Environment and Forests received. Inter-state clearance from Central Water Commission awaited.
29.	Balimela Dam Toe PH	Orissa	60.00	11 th Plan	Excavation of Power House was held up since Nov. 1984 due to objection from Govt, of Orissa. Govts, of AP & Orissa have now decided for execution of

1	2	3	4	5	6
					project by OPCL as an Independent Power Producer. Power Purchase Agreement and Detailed Project Report are being examined by grid Corporation of Orissa.
30.	Karbi Langpi Lower orpani	Assam	100.00	2004-05	80% excavation, 30% cone. & 97% slush clearance for dam completed. Due to poor performance in joint sector the contract was cancelled and Govt, of Assam handed over the project to Assam State Electricity Board for execution as per Supreme Court's verdict of January, 1999. Preparation of inventory of the assets taken up. Execution of balance works has started. Funds are being tied up with Power Finance Corporation.
31.	Myntdu	Meghalaya	84.00	2006.07	—
	PRIVATE SECTOR				
32.	Baspa St. II	H.P.	300.00	2003-04	All Civil works are in progress and likely to be completed by 2002. Unit-1 almost ready for commissioning. Erection of Unit 2 and 3 nearing completion.
33.	Dhamwarl Sunda	H.P.	70.00	2006-07	The Financial closure is expected by March, 2003. Forest clearance and environmental clearance Obtained. Process of land acquisition is in progress.

1	2	3	4	5	6
34.	Vishnu Prayag	U.P.	400.00	2006-07	Infrastructure works are in progress. Civil works are in progress.
35.	Maheshwar	M.P.	400.00	2005-07	The basic Infrastructure already in place. Land acquisition and Resettlements and Rehabilitation works are in progress. Financial package approval by Central Electricity Authority accorded on 06-04-2000.
	TOTAL (All India)		14344.00		
	Hydro capacity already spun/ Commissioned out of above		550.00		
	Net Hydro Capacity under Execution:		13794.00		

U=Unit, GT=Gas Turbine

B. Thermal Power Projects Under Construction

Sl No	Name of Project *	State	Capacity (MW)	Likely date of com-pletion	Present Status
1	2	3	4	5	6
1.	Pragati Combined Cycle Power Project, Steam Turbine	Delhi	121.18	12/2002	H.R, LP and Generator place on foundation and alignment is in progress.
2.	Rihand STPP St. II Unit 3 and 4, (NTPC),	U.P.	2x500	2005-06	Civil work is in progress as per schedule. Boiler erection started in 8/02 and is in progress.
a.	Suratgarh, CCGT St. III. Steam Turbine,	Rajasthan	250	06/2003	Boiler erection is in progress. Outer shell of chimney completed.
4.	Ramgarh Com-bined Cycle Gas Turbine St. II, Steam Turbine,	Rjasthan	37.825	03/2003	Stator placed on foun-dation. HT is expected to be completed in 12/02.

1	2	3	4	5	6
5.	Kota, Thermal Power Station, St. IV,	Rajasthan	195	07/2003	Boiler erection is In progress. HT is expected to be completed by 12/02/
6.	Akrimota Lignite Based Thermal Power Plant, Unit-1&2	Gujarat	2x125	03/2003 09x2003	Erection in progress for both the units. Due to non-committal of funds by DBI, project activities are moving at very slow pace. Project authorities has now approached Power Finance Corporation for sanction of funds.
7.	Dhuvaran Gas Based Combined Cycle Power Project, Gas Turbine, Steam Turbine,	Gujarat	67.85 +38.767	04/2003 06/2003	GT erection commence-ment expected by 11/2002.
8.	Dabhol Combined Cycle Gas Turbine Ph. II, Block I & II	Maharashtra	1444	Uncer-tain	95% works completed. 4 Gas Turbine already synchronized. 1 Steam Turbine rolled. Work held up since 6/2001 due to dispute between Maharashtra State Electricity Board and DPC.
9.	Bambooftat Diesel Generating, Unit-1&3,	A&N Islands	2x5	12/2002	DG Sets ready for synchronization. Evacuation problem.
1	. Ramagundem Steam Turbine Power Project, Unit-7,	Andhra Pradesh	500	08/2005	Boiler erection started in 5/2002 and is in progress. HT completed in 11/2002.
1 1	. Ramagundem Thermal Power Project, Unlt-1&2	Andhra Pradesh	2x260	5/2005 12/2005	Major building foundations for TG building, boiler, bunker and Chimney have been completed. The EPC contractor has stopped site work from 24.07.2002.

1	2	3	4	5	6
12.	Raihur Thermal Power Project, Unit-7,	Karnataka	210	12.2002	Boiler light up was done on 9.9.2002. Stream boiling was completed on 6.11.2002.
13.	Neyveli Thermal Power Station-1 Expansion, Unit-2,	Tamil Nadu	210	12/2002	The synchronization of unit is to be postponed to March, 2003 due to delay in supplies..
14.	Valuthur Gas Turbine Power Project, GAS Turbine and Steam Turbine	Tamil Nadu	60+34	01/2003 02/2003	The GT rotor is expected to reach site by first week of December, 2002.
15.	Kuttalam, GTPP, GT and ST,	Tamil Nsdu,	64+37	07/2003 10/2003	Site activities started.
16.	Talcher STPP St. II, Unit-3 Unit-4 Unit-5 Unit-6	Orissa	4X500	03/2003 12/2003 09/2004 06/2005	Pre-commissloning activities are in progress. Boiler, TG erection In progress.
17.	Baramura GT Extn. Unit-4	Tripura	21	1/2002	Pre-commissioning activities are in progress. Unit is likely to be commissioned by end November, 2002.
18.	Mejia Thermal Power Station, Unit-4	West Bengal	210	07/2004	Civil works including boiler foundations are in progress.
19.	HFO based DGPP at Bairali, DG 1 to 4,	Mizoram	22.92	06/2003	Turnkey contract for execution of project has been awarded to BHEL. Contract for civil works likely to be awarded in December, 2002. Engines are under inspection in Finland.
	SUB TOTAL (Thermal):		7303.542 MW		
	TOTAL (Hydro+Thermal):		21097-542 MW		